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(FILE 'HOME' ENTERED AT 22:03:23 ON 10 APR 2008)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH, LIFESCI' ENTERED AT 22:04:13 ON 10 APR 2008

L1 125 S (HUMAN(W)METAPNEUMOVIRUS OR HMPV) (5A) (SH OR G OR M2 OR M2-1 O
L2 18 S (DELET? OR SUBSTITUT? OR MUTANT OR MUTATED OR ATTENUAT?) (9A)L
L3 36 S (ATTENUAT? OR COMPETENT) (6A) (HUMAN(W)METAPNEUMOVIRUS OR HMPV)
L4 7 DUP REM L2 (11 DUPLICATES REMOVED)
L5 12 S L1 AND L3
L6 11 DUP REM L3 (25 DUPLICATES REMOVED)
L7 4 DUP REM L5 (8 DUPLICATES REMOVED)

=> d au ti so pi 1-7 14

L4 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
IN Li, Xiaomao
TI Nucleic acid compositions encoding human metapneumovirus F antigen and G
antigen and antibodies for treatment and diagnosis of hMPV infection
SO PCT Int. Appl., 64pp.

CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007038862	A1	20070412	WO 2006-CA1625	20061003
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

L4 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
AU Zhu, Runan; Qian, Yuan; Zhao, Linqing; Deng, Jie; Wang, Fang
TI Sequence analysis of G glycoprotein encoding genes of human metapneumoviruses amplified from specimens collected from children with acute respiratory infections in Beijing
SO Bingdu Xuebao (2006), 22(3), 180-185
CODEN: BIXUEA; ISSN: 1000-8721

L4 ANSWER 3 OF 7 MEDLINE on STN DUPLICATE 1
AU Biacchesi Stephane; Pham Quynh N; Skiadopoulos Mario H; Murphy Brian R; Collins Peter L; Buchholz Ursula J
TI Infection of nonhuman primates with recombinant human metapneumovirus lacking the SH, G, or M2-2 protein categorizes each as a nonessential accessory protein and identifies vaccine candidates.
SO Journal of virology, (2005 Oct) Vol. 79, No. 19, pp. 12608-13.
Journal code: 0113724. ISSN: 0022-538X.

L4 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 2
AU Buchholz, Ursula J.; Biacchesi, Stephane; Pham, Quynh N.; Tran, Kim C.; Yang, Lijuan; Luongo, Cindy L.; Skiadopoulos, Mario H.; Murphy, Brian R.; Collins, Peter L.
TI Deletion of M2 gene open reading frames 1 and 2 of human metapneumovirus: Effects on RNA synthesis, attenuation, and immunogenicity

SO Journal of Virology (2005), 79(11), 6588-6597
CODEN: JOVIAM; ISSN: 0022-538X

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
IN Collins, Peter L.; Biacchesi, Stephane; Buchholz, Ursula; Skiadopoulos,
Mario H.; Murphy, Brian R.

TI Recombinant human metapneumovirus comprising attenuating nucleotide
modifications and its use for eliciting an immune response

SO U.S. Pat. Appl. Publ., 190 pp.
CODEN: USXXCO

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20040241188	A1	20041202	US 2004-789400	20040227
	AU 2004262624	A1	20050217	AU 2004-262624	20040227
	CA 2517394	A1	20050217	CA 2004-2517394	20040227
	WO 2005014626	A2	20050217	WO 2004-US5881	20040227
	WO 2005014626	A3	20050428		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP	1603939	A2	20051214	EP 2004-775808	20040227
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
JP	2007524372	T	20070830	JP 2006-508872	20040227
IN	2005DN04169	A	20070831	IN 2005-DN4169	20050915

L4 ANSWER 6 OF 7 MEDLINE on STN DUPLICATE 3
AU Biacchesi Stephane; Skiadopoulos Mario H; Yang Lijuan; Lamirande Elaine W;
Tran Kim C; Murphy Brian R; Collins Peter L; Buchholz Ursula J

TI Recombinant human Metapneumovirus lacking the small
hydrophobic SH and/or attachment G glycoprotein:
deletion of G yields a promising vaccine candidate.

SO Journal of virology, (2004 Dec) Vol. 78, No. 23, pp. 12877-87.
Journal code: 0113724. ISSN: 0022-538X.

L4 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
IN Haller, Aurelia; Tang, Roderick; Fouchier, Ronaldus Adrianus Maria; Van
den Hoogen, Bernadetta Gerarda; Osterhaus, Albertus Dominicus Marcellinus
Erasmus

TI Recombinant or chimeric virus encoding human Metapneumovirus N, M, F, L,
P, M2-1, M2-2, SH or G ORFs for use as vaccines and diagnostic agent

SO PCT Int. Appl., 568 pp.
CODEN: PIXXD2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003072719	A2	20030904	WO 2003-US5271	20030221
	WO 2003072719	A3	20070913		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,			

KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, AP,
 EA, EP, OA

CA 2477234	A1	20030904	CA 2003-2477234	20030221
AU 2003219837	A1	20030909	AU 2003-219837	20030221
US 20030232326	A1	20031218	US 2003-371099	20030221
US 20040005545	A1	20040108	US 2003-373567	20030221
CN 1646684	A	20050727	CN 2003-808914	20030221
EP 1576090	A2	20050921	EP 2003-716116	20030221
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006500907	T	20060112	JP 2003-571407	20030221
CN 101098958	A	20080102	CN 2003-809000	20030221
IN 2004CN02090	A	20060303	IN 2004-CN2090	20040920
IN 2007CN03790	A	20080125	IN 2007-CN3790	20070830

=> d au ti so pi 1-11 16

L6	ANSWER 1 OF 11	MEDLINE on STN	DUPLICATE 1
AU	Hamelin Marie-Eve; Couture Christian; Sackett Melanie; Kiener Peter; Suzich JoAnn; Ulbrandt Nancy; Boivin Guy		
TI	The prophylactic administration of a monoclonal antibody against human metapneumovirus attenuates viral disease and airways hyperresponsiveness in mice.		
SO	Antiviral therapy, (2008) Vol. 13, No. 1, pp. 39-46. Journal code: 9815705. ISSN: 1359-6535.		
L6	ANSWER 2 OF 11	MEDLINE on STN	DUPLICATE 2
AU	Biacchesi Stephane; Pham Quynh N; Skiadopoulos Mario H; Murphy Brian R; Collins Peter L; Buchholz Ursula J		
TI	Modification of the trypsin-dependent cleavage activation site of the human metapneumovirus fusion protein to be trypsin independent does not increase replication or spread in rodents or nonhuman primates.		
SO	Journal of virology, (2006 Jun) Vol. 80, No. 12, pp. 5798-806. Journal code: 0113724. ISSN: 0022-538X.		
L6	ANSWER 3 OF 11	MEDLINE on STN	DUPLICATE 3
AU	Pham Quynh N; Biacchesi Stephane; Skiadopoulos Mario H; Murphy Brian R; Collins Peter L; Buchholz Ursula J		
TI	Chimeric recombinant human metapneumoviruses with the nucleoprotein or phosphoprotein open reading frame replaced by that of avian metapneumovirus exhibit improved growth in vitro and attenuation in vivo.		
SO	Journal of virology, (2005 Dec) Vol. 79, No. 24, pp. 15114-22. Journal code: 0113724. ISSN: 0022-538X.		
L6	ANSWER 4 OF 11	MEDLINE on STN	DUPLICATE 4
AU	Biacchesi Stephane; Pham Quynh N; Skiadopoulos Mario H; Murphy Brian R; Collins Peter L; Buchholz Ursula J		
TI	Infection of nonhuman primates with recombinant human metapneumovirus lacking the SH, G, or M2-2 protein categorizes each as a nonessential accessory protein and identifies vaccine candidates.		
SO	Journal of virology, (2005 Oct) Vol. 79, No. 19, pp. 12608-13. Journal code: 0113724. ISSN: 0022-538X.		
L6	ANSWER 5 OF 11	MEDLINE on STN	DUPLICATE 5
AU	Schickli Jeanne H; Kaur Jasmine; Ulbrandt Nancy; Spaete Richard R; Tang Roderick S		
TI	An S101P substitution in the putative cleavage motif of the human metapneumovirus fusion protein is a major determinant for		

trypsin-independent growth in vero cells and does not alter tissue tropism in hamsters.

SO Journal of virology, (2005 Aug) Vol. 79, No. 16, pp. 10678-89.
Journal code: 0113724. ISSN: 0022-538X.

L6 ANSWER 6 OF 11 MEDLINE on STN DUPLICATE 6
AU Buchholz Ursula J; Biacchesi Stephane; Pham Quynh N; Tran Kim C; Yang Lijuan; Luongo Cindy L; Skiadopoulos Mario H; Murphy Brian R; Collins Peter L

TI Deletion of M2 gene open reading frames 1 and 2 of human metapneumovirus: effects on RNA synthesis, attenuation, and immunogenicity.

SO Journal of virology, (2005 Jun) Vol. 79, No. 11, pp. 6588-97.
Journal code: 0113724. ISSN: 0022-538X.

L6 ANSWER 7 OF 11 MEDLINE on STN DUPLICATE 7
AU Tang Roderick S; Mahmood Kutubuddin; Macphail Mia; Guzzetta Jeanne M; Haller Aurelia A; Liu Hui; Kaur Jasmine; Lawlor Heather A; Stillman Elizabeth A; Schickli Jeanne H; Fouchier Ron A M; Osterhaus Albert D M E; Spaete Richard R

TI A host-range restricted parainfluenza virus type 3 (PIV3) expressing the human metapneumovirus (hMPV) fusion protein elicits protective immunity in African green monkeys.

SO Vaccine, (2005 Feb 25) Vol. 23, No. 14, pp. 1657-67.
Journal code: 8406899. ISSN: 0264-410X.

L6 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
IN Haller, Aurelia; Tang, Roderick; Fouchier, Ronaldus Adrianus Maria; Van Den Hoogen, Bernadetta Gerarda; Osterhaus, Albertus Dominicus Marcellinus Erasmus

TI Human Metapneumovirus strains and their use in vaccine formulations and as vectors for expression of antigenic sequences, and methods for propagating virus

SO PCT Int. Appl., 613 pp.
CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2004096993	A2	20041111	WO 2004-US12724	20040423
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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AU 2004235347	A1	20041111	AU 2004-235347	20040423
CA 2523319	A1	20041111	CA 2004-2523319	20040423
US 20050019891	A1	20050127	US 2004-831780	20040423
EP 1623006	A2	20060208	EP 2004-750614	20040423
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
JP 2007525178	T	20070906	JP 2006-513301	20040423
IN 2005CN03153	A	20070831	IN 2005-CN3153	20051125

L6 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
IN Skiadopoulos, Mario H.; Murphy, Brian R.; Collins, Peter L.
TI Human parainfluenza virus type 2 (HPIV2): vaccines and vectors

SO PCT Int. Appl., 220 pp.

CODEN: PIXXD2

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI	WO 2004027037	A2	20040401	WO 2003-US29685	20030918
	WO 2004027037	A3	20051222		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2499404	A1	20040401	CA 2003-2499404	20030918
	AU 2003270824	A1	20040408	AU 2003-270824	20030918
	US 20040204581	A1	20041014	US 2003-667141	20030918
	EP 1572947	A2	20050914	EP 2003-752537	20030918
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
	JP 2006512904	T	20060420	JP 2004-538335	20030918

L6 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

IN Collins, Peter L.; Biacchesi, Stephane; Buchholz, Ursula; Skiadopoulou, Mario H.; Murphy, Brian R.

TI Recombinant human metapneumovirus comprising
attenuating nucleotide modifications and its use for eliciting an
immune response

SO U.S. Pat. Appl. Publ., 190 pp.

CODEN: USXXCO

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI	US 20040241188	A1	20041202	US 2004-789400	20040227
	AU 2004262624	A1	20050217	AU 2004-262624	20040227
	CA 2517394	A1	20050217	CA 2004-2517394	20040227
	WO 2005014626	A2	20050217	WO 2004-US5881	20040227
	WO 2005014626	A3	20050428		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	EP 1603939	A2	20051214	EP 2004-775808	20040227
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
	JP 2007524372	T	20070830	JP 2006-508872	20040227
	IN 2005DN04169	A	20070831	IN 2005-DN4169	20050915

L6 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

IN Naylor, Clive J.

TI Attenuation of metapneumovirus for vaccine use by modification of the F
gene

SO PCT Int. Appl., 100 pp.

CODEN: PIXXD2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2003097089	A2	20031127	WO 2003-EP5187	20030516
	WO 2003097089	A3	20040205		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	DE 10221836	A1	20031204	DE 2002-10221836	20020516
	CA 2484295	A1	20031127	CA 2003-2484295	20030516
	AU 2003240668	A1	20031202	AU 2003-240668	20030516
	EP 1503792	A2	20050209	EP 2003-730063	20030516
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	BR 2003010046	A	20050215	BR 2003-10046	20030516
	CN 1652819	A	20050810	CN 2003-811154	20030516
	JP 2005538702	T	20051222	JP 2004-505085	20030516
	MX 2004PA11226	A	20050620	MX 2004-PA11226	20041112
	US 20060002958	A1	20060105	US 2004-514250	20041112

=> d au ti so pi 1-4 17

L7 ANSWER 1 OF 4 MEDLINE on STN DUPLICATE 1
AU Biacchesi Stephane; Pham Quynh N; Skiadopoulos Mario H; Murphy Brian R; Collins Peter L; Buchholz Ursula J
TI Infection of nonhuman primates with recombinant human metapneumovirus lacking the SH, G, or M2-2 protein categorizes each as a nonessential accessory protein and identifies vaccine candidates.
SO Journal of virology, (2005 Oct) Vol. 79, No. 19, pp. 12608-13. Journal code: 0113724. ISSN: 0022-538X.

L7 ANSWER 2 OF 4 MEDLINE on STN DUPLICATE 2
AU Buchholz Ursula J; Biacchesi Stephane; Pham Quynh N; Tran Kim C; Yang Lijuan; Luongo Cindy L; Skiadopoulos Mario H; Murphy Brian R; Collins Peter L
TI Deletion of M2 gene open reading frames 1 and 2 of human metapneumovirus: effects on RNA synthesis, attenuation, and immunogenicity.
SO Journal of virology, (2005 Jun) Vol. 79, No. 11, pp. 6588-97. Journal code: 0113724. ISSN: 0022-538X.

L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
IN Haller, Aurelia; Tang, Roderick; Fouchier, Ronaldus Adrianus Maria; Van Den Hoogen, Bernadetta Gerarda; Osterhaus, Albertus Dominicus Marcellinus Erasmus
TI Human Metapneumovirus strains and their use in vaccine formulations and as vectors for expression of antigenic sequences, and methods for propagating virus
SO PCT Int. Appl., 613 pp. CODEN: PIXXD2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2004096993	A2	20041111	WO 2004-US12724	20040423

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2004235347 A1 20041111 AU 2004-235347 20040423
CA 2523319 A1 20041111 CA 2004-2523319 20040423
US 20050019891 A1 20050127 US 2004-831780 20040423
EP 1623006 A2 20060208 EP 2004-750614 20040423

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR

JP 2007525178 T 20070906 JP 2006-513301 20040423
IN 2005CN03153 A 20070831 IN 2005-CN3153 20051125

L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
IN Collins, Peter L.; Biacchesi, Stephane; Buchholz, Ursula; Skiadopoulos, Mario H.; Murphy, Brian R.

TI Recombinant human metapneumovirus comprising
attenuating nucleotide modifications and its use for eliciting an
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